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SOURCE Trudy Instituta Merzlotovedeniya imeni V. A. Obruchev. Vol I, 1946, Vol. V, 1947.

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SOVIET PERMAFROST STUDIES

1. Works of the Permafrost Institute imeni V. A. Obruchev (Trudy Instituta Merzlotovedeniya imeni V. A. Obruchev), Vol I, 1946, "Residential and Small-Scale Industrial Construction in Permafrost Regions."

This volume represents the first work of the Permafrost Institute imeni V. A. Obruchev, which was organized from the Committee on Permafrost, Academy of Sciences USSR. This reorganization was effected in July 1939. The volume contains works of practical importance relating to problems of residential and small-scale industrial construction in two different permafrost regions. These regions (Dudinka and Yakutsk) were selected because of their high potentialities. The small industrial enterprises discussed are power stations and a brick plant in the Dudinka region. This volume includes the following four articles: V. F. Tumel's "Some Features of Residential Foundation Work in the Northern Regions of the Permafrost Area"; G. O. Lukin's "Construction and Maintenance of Small Industrial Building Foundations in the Dudinka Region"; N. I. Saltykov's "Foundations of Buildings in the City of Yakutsk"; and D. V. Redozubov's "Laws Governing the Permafrost Temperature Field at Vorkuta." (Abstracts of the articles in English are included).

2. Works of the Permafrost Institute imeni V. A. Obruchev Vol V, 1947, "Electrometry and Odometry of Frozen Strata."

This volume deals with problems involved in the use of electrometry and odometry to determine the thickness of the permafrost layer. All works included in this volume were prepared for publication in 1941. This volume includes the following works: "Eulogy on A. A. Petrovskiy, Deceased," by V. A. Obruchev, L. D. Shevyakov, and A. T. Donabedov; M. I. Sumgin and A. A. Petrovskiy's "The Importance of Electrical Methods for the Study of Permafrost"; B. N. Dostovalov's "The Electrical Characteristics of Frozen Rocks"; B. S. Enenshteyn's "Results of Electrical Prospecting Using the Direct-Current Method in Permafrost Regions (includes description of electrical prospecting works on the Tolba River in Yakutsk ASSR, at Nordvik, in the Amderma region, around the Baykal-Amur line, in the region of the Bukachacha coal deposit,

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near the Tynda-Zeya railroad, in the Igarka region, etc.); B. S. Enenshteyn's "Observations on Earth Currents in the Permafrost at Igarka"; A. A. Petrovskiy's "Processing of Capacitance Observations Made With a Horizontal Antenna"; A. A. Petrovskiy and B. N. Dostovalov's "The First Experiments in Sending Electromagnetic Waves Through Permafrost"; and A. A. Petrovskiy and B. N. Dostovalov's "The Wavemeter Method as Applied to the Study of the Upper Soil Layer". (Abstracts of most articles in English.).

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